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(54) LIGHT EMITTING DIODE (LED) LIGHTING SYSTEM WITH ANTIMICROBIAL/AIR CLEANING FUNCTIONS FROM HIGHLY SPECULAR MULTILAYER THIN FILM REFLECTOR

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(57) ABSTRACT

A system and method according to various embodiments can include a lighting fixture comprising a light source. A multilayer thin film coated reflector is applied to an outer light emitting surface of the lighting fixture. A top layer of the multilayer thin film coated reflector comprises a material including an anatase TiO crystal structure that exhibits antimicrobial properties when activated by the light source.

11 Claims, 5 Drawing Sheets

